

FULL-DUPLEX OPTICAL COMMUNICATION SYSTEM

ABSTRACT OF THE DISCLOSURE

A method of full-duplex electro-magnetic communication wherein a pair of data modulation
5 formats are selected for the forward and return data links respectively such that the forward data electro-
magnetic beam serves as a carrier for the return data. A method of encoding optical information is used
wherein right-hand and left-hand circular polarizations are assigned to optical information to represent
binary states. An application for an earth to low earth orbit optical communications system is presented
which implements the full-duplex communication and circular polarization keying modulation format.

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